

THANK YOU FOR CHOOSING ROBOTIQ

This step-by-step guide will allow you to **install and use** your **2-Finger Adaptive Gripper** on **e-Series** Universal Robots.



1. WHAT IS SUPPLIED?

Standard upon delivery of **AGC-ES-UR-KIT-85** or **-140**

2F-85 Basic gripper unit..... (AGC-GRP-2F85)

or 2F-140 Basic gripper unit..... (AGC-GRP-2F140)

Gripper coupling (GRP-ES-CPL-062)

Connection protector..... (GRP-ES-CPL-PRO)

Required hardware



2. TOOLS YOU NEED



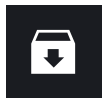
2mm
hex key



3mm
hex key



4mm
hex key



3. GET THE LATEST

Visit: support.robotiq.com

DOWNLOADING THE URCAP

1. Go to **Select brand > Universal Robots > 2F-85 and 2F-140 Grippers > Software > Gripper Software**.
2. Select **DOWNLOAD ZIP**.
3. Save the ZIP file **UCG-X.X.X** to a USB stick.

DOWNLOADING THE INSTRUCTION MANUAL

Go to **Select brand > Universal Robots > 2F-85 and 2F-140 Grippers > Documents > Gripper Instruction > Download PDF**.

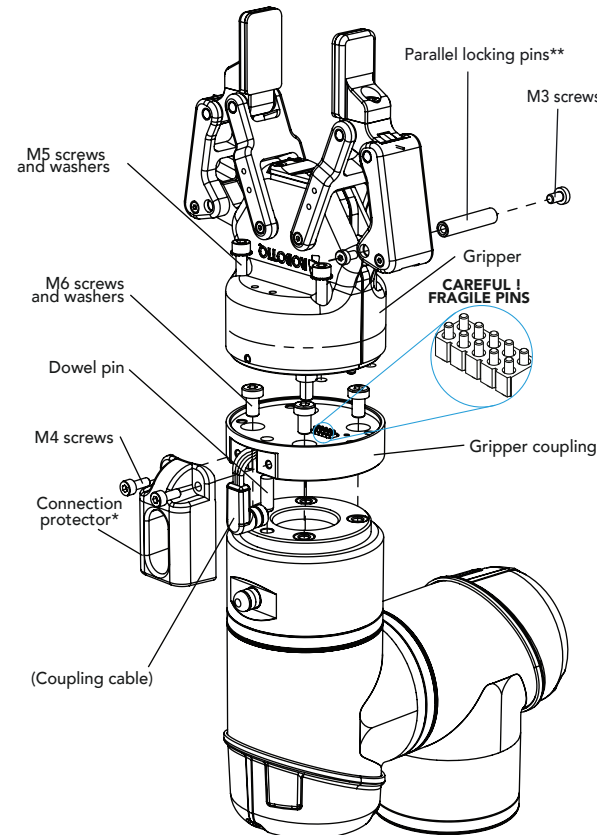


**BEFORE OPERATING THE GRIPPER, PLEASE READ
YOUR INSTRUCTION MANUAL.**



4. MOUNTING

- Mount the coupling on your robot arm. Align with the provided dowel pin.
- Secure using the provided M6 screws and tooth lock washers
- Mount the Gripper on the coupling. Align with the dowel pin.
- Secure using the provided M5 screws and tooth lock washers.
- Plug the coupling's cable in the robot's wrist connector.
- Cover the connection using the protector and the provided M4 screws.



* Select the connection protector corresponding to your robot model in the GRP-ES-CPL-PRO kit.

**Parallel locking pins can be installed to perform exclusively parallel grasps with the Gripper. See instruction manual for more details.



5. SOFTWARE INSTALLATION

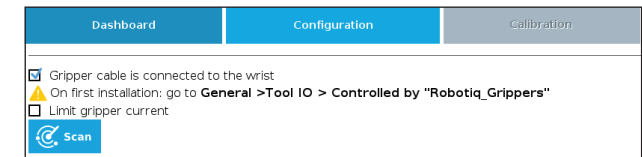
- Have a USB stick that contains the **.urcap** file (section 3).
- Insert the USB stick in the robot's teach pendant.
- Tap the triple bar icon in the upper right corner and select the System menu on the left.
- Tap the URCaps submenu and then tap the **+** sign at the bottom of the screen.
- Open **Robotiq_Grippers-X.X.X.urcap**.
- Tap the **Restart** button to activate the URCap.



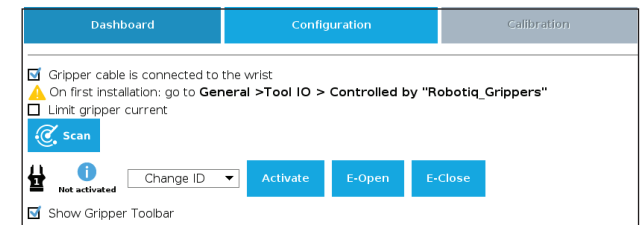
6. ACTIVATE THE GRIPPER

Gripper Activate Node

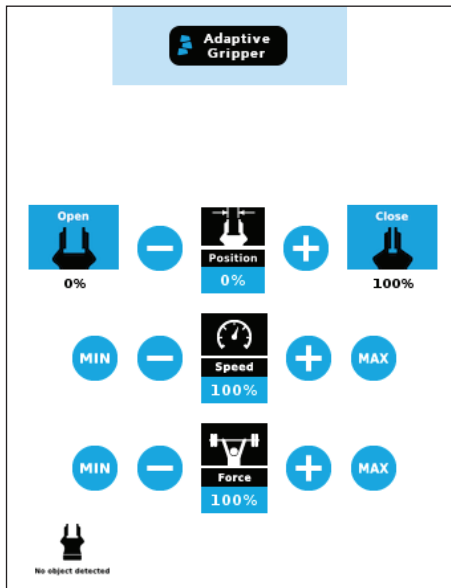
- Tap the **Installation** button at the top of the screen.
- Tap the **URCaps** button in the navigation pane on the left.
- Select **Gripper** in the dropdown list.
- Go to the **Dashboard** tab.
- Check the **Gripper is connected to the wrist** checkbox.
- Tap the **Scan** button to locate any connected Gripper.



- Once the Gripper is located, tap the **Activate** button.

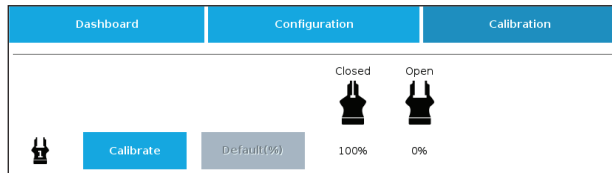


- Tap the **UR+** button to expand the Gripper Toolbar.
- The Gripper toolbar allows you to jog and test the Gripper. For more information, refer to the instruction manual.



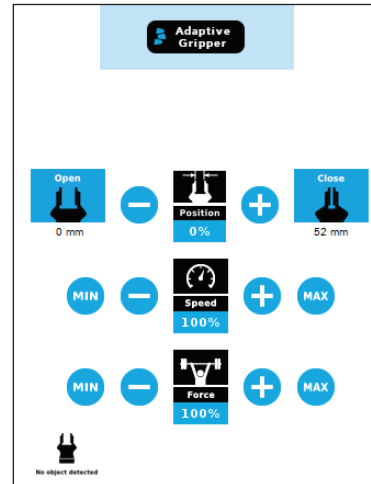
7. HOW TO CALIBRATE THE GRIPPER

- Go to the **Installation** tab, tap the URCaps menu on the left and select **Gripper**.
- Tap the **Calibration** tab.
- Tap the **Calibrate** button next to the Gripper icon to start the Calibration wizard.



- The wizard prompts the user to fully **close** the Gripper, regardless of the type of fingers/fingertips used.
- Measure the distance between the fingers/fingertips and enter the measurement in the appropriate box.
- Tap the **Continue** button.
- The user is then asked to fully **open** the Gripper.
- Measure the distance between the fingers/fingertips and enter the measurement in the appropriate box.
- Tap the **Continue** button to complete the Calibration wizard.

- Tap the **UR+** button to expand the Gripper Toolbar. Depending on the PolyScope settings used, the Gripper position measurements can either display in metric or imperial units.



8. USE NODES TO PROGRAM WITH THE GRIPPER

Gripper Node

- Tap the **Program** button at the top of the screen.
- Tap the **URCaps** button in the navigation pane on the left.
- Select **Gripper** in the dropdown list.
- Go to the **Command** tab to edit your Gripper's action.

Grip Check Node

- Tap the **Program** button at the top of the screen.
- Tap the **URCaps** button in the navigation pane on the left.
- Select **Grip Check** in the dropdown list.
- Go to the **Command** tab to edit the node.
- Select a condition (If object is **detected** vs. If object is **not detected**).
- If applicable, enter the object dimension for validation.

This product is under a 1-year warranty.
Refer to your product instruction manual for details.

support.robotiq.com

support@robotiq.com
T: 1.418.380.2788 ext. 3

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2F-85
2F-140

QUICK START GUIDE

For installation on
e-Series
Universal Robots



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